

**Amendment to the Claims**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

1. (Currently amended) A lock-pin cartridge for incorporation into a variable valve activation assembly to latch and unlatch a first member thereof from a second member thereof, the cartridge comprising:

a) a body disposable on said first member and having an axial bore having first and second ends, said first end having a closure, said second end being partially closed and having a passage therethrough;

b) a piston assembly having a locking pin and a piston disposed in said bore, said locking pin extending through said second end passage to provide said latching and unlatching of said first and second members, said piston being spaced apart from said first and second ends to define a hydraulic chamber and a spring chamber within said bore on opposite sides of said piston; and

c) biasing means disposed in said spring chamber between said partially closed second end and said piston for urging said piston assembly toward ~~one of~~ end of said first and second ends end.

2. (Original) A lock-pin cartridge in accordance with Claim 1 wherein said hydraulic chamber comprises said first end and said spring chamber comprises said second end.

3. (Currently amended) A lock-pin cartridge ~~in accordance with Claim~~  
~~4~~ for incorporation into a variable valve activation assembly to latch and unlatch a  
first member thereof from a second member thereof, the cartridge comprising:

a) a body disposable on said first member and having an axial bore having  
first and second ends, said first end having a closure, said second end being  
partially closed and having a passage therethrough;

b) a piston assembly having a locking pin and a piston disposed in said bore,  
said locking pin extending through said second end passage to provide said latching  
and unlatching of said first and second members, said piston being spaced apart  
from said first and second ends to define a hydraulic chamber and a spring chamber  
within said bore on opposite sides of said piston; and

c) biasing means disposed in said spring chamber between said first end and  
said piston for urging said piston assembly toward said second end, wherein said  
spring chamber comprises said first end and said hydraulic chamber comprises said  
second end.

4. (Original) A lock-pin cartridge in accordance with Claim 1 further  
comprising at least one perforation in said body for providing oil to said hydraulic  
chamber.

5. (Currently amended) A lock-pin cartridge for a variable valve activation rocker arm, comprising:

- a) a body having a closure at a first end and a partially closed second end;
- b) a piston assembly disposed in said body and extending through ~~[[a]]~~ said second end thereof for latching and unlatching said rocker arm, said piston assembly being spaced apart from said first end to define a hydraulic chamber in said body; and
- c) spring means disposed in said body between said piston assembly and said partially closed second end for urging said piston assembly toward said first end.

6. (Currently amended) A lock-pin cartridge in accordance with Claim 5 further comprising piston extension means attached to said piston assembly and extending through an aperture in said first end closure for engaging piston actuating means.

7. (Currently amended) A variable valve activation assembly wherein a first member is latchable and unlatchable from a second member thereof, comprising a lock-pin cartridge including:

- a body disposable on said first member and having an axial bore having first and second ends, said first end having a closure, said second end being partially closed and having a passage therethrough,

a piston assembly having a locking pin and a piston disposed in said bore, said locking pin extending through said second end passage to provide said latching and unlatching of said first and second members, said piston being spaced apart from said first and second ends to define a hydraulic chamber and a spring chamber within said bore on opposite sides of said piston, and

biasing means disposed in said spring chamber between said partially closed second end and said piston for urging said piston assembly toward ~~one of~~ said first ~~and second ends~~ end.

8. (Original) An assembly in accordance with Claim 7 wherein said first member includes a bore for receiving said lock-pin cartridge.

9. (New) An assembly in accordance with Claim 7 wherein said body includes a constriction.

10. (New) An assembly in accordance with Claim 7 wherein a latch member is disposed on said locking pin.

11. (New) A lock-pin cartridge in accordance with Claim 1 wherein said body includes a constriction.

12. (New) A lock-pin cartridge in accordance with Claim 1 wherein a latch member is disposed on said locking pin.